

*Arizona Department of Environmental Quality*  
2000 Cost Ceilings

**2000 Cost Ceiling Item Descriptions**

**SUPPLEMENTAL UNIT RATES**

**PERSONNEL RATES**

**1. PRINCIPAL LEVEL PER HOUR**

THE AUTHORIZED TASKS FOR A PRINCIPAL LEVEL PROFESSIONAL INCLUDE: DIRECT PROFESSIONAL STAFF; SERVE AS TECHNICAL EXPERT OR COORDINATOR OF LARGE OR TECHNICALLY COMPLEX SITES; PROVIDE FINAL REVIEW OF PROJECT DOCUMENTS THAT LEGALLY BIND THE COMPANY; LIMITED SITE VISITS ON COMPLEX PROJECTS. ASSUME NO PER DIEM ALLOWANCE.

**2. SENIOR LEVEL PER HOUR**

THE AUTHORIZED TASKS FOR A SENIOR LEVEL PROFESSIONAL INCLUDE: PROJECT MANAGEMENT/OVERSIGHT; LIMITED WORK PLAN PREPARATION ON COMPLEX SITES; FINAL REPORT PREPARATION/REVIEW; DEVELOP AND OVERSEE PROJECT BUDGET; WORK PLAN REVIEW; COORDINATE WITH AGENCY, CLIENT AND CONTRACTORS; HYDROGEOLOGIC AND CONTAMINANT MODELING; EQUIPMENT SPECIFICATION REVIEW; OCCASIONAL SITE VISITS DURING SITE CHARACTERIZATION ACTIVITIES; CONDUCT FIELD ACTIVITIES DURING COMPLEX REMEDIATION ACTIVITIES; SUPERVISE COMPLEX REMEDIATION ACTIVITIES. ASSUME NO PER DIEM ALLOWANCE.

**3. PROJECT LEVEL PER HOUR**

THE AUTHORIZED TASKS FOR A PROJECT LEVEL PROFESSIONAL INCLUDE: WORK PLAN PREPARATION; FIELD WORK PREPARATION AND PLANNING; OCCASIONAL SITE VISITS DURING SITE CHARACTERIZATION ACTIVITIES; CONDUCT FIELD ACTIVITIES DURING COMPLEX REMEDIATION ACTIVITIES; REPORT PREPARATION AND REVIEW; DATA REVIEW AND ANALYSIS; EQUIPMENT SELECTION AND DESIGN; SUPERVISE UST SOIL AND GROUNDWATER CHARACTERIZATION AND REMEDIATION ACTIVITIES; OVERSIGHT OF WASTE CHARACTERIZATION, TRANSPORTATION, AND DISPOSAL. ASSUME NO PER DIEM ALLOWANCE.

**4. STAFF LEVEL PER HOUR**

THE AUTHORIZED TASKS FOR A STAFF LEVEL PROFESSIONAL INCLUDE: REPORT PREPARATION; REMEDIATION SYSTEM INSTALLATION, OPERATION, AND MAINTENANCE; SITE RECONNAISSANCE AND MAPPING; OBTAIN SITE ACCESS; INSTALLATION OF SOIL BORINGS, GROUNDWATER MONITORING WELLS AND REMEDIAL INJECTION AND EXTRACTION WELLS; SUPERVISE UST REMOVAL, GROUNDWATER SAMPLE COLLECTION, SOIL REMOVAL, AND OTHER ON-SITE REMEDIATION ACTIVITIES; ASSIST WITH WASTE CHARACTERIZATION, TRANSPORTATION, AND DISPOSAL; ASSIST IN MODELING AND DATA ANALYSIS. ASSUME NO PER DIEM ALLOWANCE.

**5. FIELD LEVEL PER HOUR**

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THE AUTHORIZED TASKS FOR A FIELD LEVEL PROFESSIONAL INCLUDE: FIELD ACTIVITIES ASSOCIATED WITH PERIODIC GROUNDWATER MONITORING AND MONTHLY STATIC WATER LEVEL/FREE PRODUCT GAUGING; WELL PURGING AND DEVELOPMENT; FREE PRODUCT REMOVAL; SAMPLE COLLECTION, LIMITED CONTRACTOR SUPERVISION; FIELD EQUIPMENT/SAMPLE PREPARATION; DECONTAMINATION; OTHER ROUTINE FIELD ACTIVITIES. ASSUME NO PER DIEM ALLOWANCE.

**6. TECHNICAL LEVEL** **PER HOUR**  
**(CADD, COMPUTER, MAP PRODUCTION, ETC.)**

THE AUTHORIZED TASKS FOR TECHNICAL PERSONNEL INCLUDE: CADD WORK; GENERATE NEW DRAWINGS, MAPS AND PLANS; REVISIONS TO EXISTING DRAWINGS, MAPS, AND PLANS. ASSUME NO PER DIEM ALLOWANCE

**7. ADMINISTRATIVE ASSISTANT** **PER HOUR**

THE AUTHORIZED TASKS FOR ADMINISTRATIVE ASSISTANT PROFESSIONALS INCLUDE: BOOKKEEPING; INVOICE PREPARATION; PROOFREADING/EDITING; AND SOME WORD PROCESSING, ETC. ASSUME NO PER DIEM ALLOWANCE.

**8. WORD PROCESSOR** **PER HOUR**

THE AUTHORIZED TASKS FOR WORD PROCESSING PROFESSIONALS INCLUDE: GENERAL CLERICAL DUTIES; WORD PROCESSING; DOCUMENTATION REPRODUCTION; REPORT BINDING; FILING; ETC. ASSUME NO PER DIEM ALLOWANCE.

**CONSTRUCTION/CONTRACTING PERSONNEL RATES**

**9. CONSTRUCTION FIELD SUPERVISOR** **PER HOUR**

THE AUTHORIZED TASKS FOR A CONSTRUCTION FIELD SUPERVISOR INCLUDE: SUPERVISION OF ALL LOGISTICAL MATTERS INCLUDING PRE- AND POST-FIELD PLANNING AND SCHEDULING ACTIVITIES; SUPERVISES COMPLEX CONSTRUCTION PROJECTS REQUIRING MULTIPLE CONSTRUCTION PERSONNEL. ASSUME NO PER DIEM ALLOWANCE.

**10. SKILLED LABORER** **PER HOUR**

THE AUTHORIZED TASKS FOR SKILLED LABORERS INCLUDE: SMALL EQUIPMENT OPERATION, AS WELL AS TASKS TYPICALLY PERFORMED BY INDIVIDUALS IN THE GENERAL CONSTRUCTION, WELDING, ELECTRICAL, AND PLUMBING TRADES. A SKILLED LABORER MAY HOLD A SPECIFIC LICENSE OR CERTIFICATION FOR A PARTICULAR SKILL OR CRAFT. ASSUME NO PER DIEM ALLOWANCE.

**11. UNSKILLED LABORER** **PER HOUR**

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THE AUTHORIZED TASKS FOR UNSKILLED LABORERS INCLUDE GENERAL MANUAL LABOR TASK (FOR EXAMPLE, A DRILLER'S HELPER). ASSUME NO PER DIEM ALLOWANCE.

- 12. EQUIPMENT OPERATOR (AVERAGE RATE TO OPERATE  
A STANDARD PIECE OF EQUIPMENT) PER HOUR**

THE AUTHORIZED TASKS FOR EQUIPMENT OPERATORS INCLUDE: OPERATE HEAVY EQUIPMENT INCLUDING BACKHOES, DUMP TRUCKS, EXCAVATORS, LOADERS, AND DRILL RIGS (DRILLER ONLY), ETC. ASSUME NO PER DIEM ALLOWANCE.

**PER DIEM RATES**

- 13. PER DIEM REQUIREMENT MILES**

THE MINIMUM (ONE-WAY) DISTANCE FROM THE NEAREST APPLICABLE OFFICE TO THE SITE THAT A CONSULTANT/CONTRACTOR MUST TRAVEL TO BE ELIGIBLE FOR PER DIEM.

- 14. FIELDWORK PER DIEM WITHOUT OVERNIGHT STAY PER DAY**

FIELDWORK PER DIEM WITHOUT OVERNIGHT STAY REQUIRES A MINIMUM 8-HOUR FIELD DAY AND IS APPLICABLE TO BOTH CONSULTANTS AND CONTRACTORS.

- 15. FIELDWORK PER DIEM WITH OVERNIGHT STAY PER DAY**

FIELDWORK PER DIEM WITH OVERNIGHT STAY (INCLUDING LODGING) IS APPLICABLE TO BOTH CONSULTANTS AND CONTRACTORS. AN OVERNIGHT STAY IS APPROPRIATE WHEN TIME AND/OR DISTANCE PREVENTS A RETURN HOME AT THE END OF A WORK DAY.

**CONSULTANT MILEAGE RATES**

- 16. CONSULTANT MILEAGE RATE (SINGLE PERSON) PER MILE**

COMPANY OWNED VEHICLE MILEAGE RATE IS \$2 / MILE. NOTE: THE DOLLAR PER MILE (\$/MILE) MILEAGE RATE MAY NOT BE MARKED UP ON A COMPANY-OWNED VEHICLE. A RENTAL PRICE AND ADDITIONAL MILEAGE CHARGES FOR A COMPANY-OWNED VEHICLE MAY BE REIMBURSED IF THE TOTAL COST OF BOTH IS LESS THAN THE ESTABLISHED MILEAGE COST CEILING WILL ALLOW. NOTE: CONSULTANT TRAVEL TIME IS INCLUDED IN THE \$/MILE RATE AND IS INDEPENDENT OF PERSONNEL LEVEL OF INDIVIDUAL TRAVELING TO AND FROM THE SITE. ASSUME (1) INDIVIDUAL AT STAFF LEVEL RATE.

- 17. CONSULTANT MILEAGE RATE (TWO PEOPLE) PER MILE**

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COMPANY OWNED VEHICLE MILEAGE RATE IS \$4 / MILE. NOTE: THE DOLLAR PER MILE (\$/MILE) MILEAGE RATE MAY NOT BE MARKED UP ON A COMPANY-OWNED VEHICLE. A RENTAL PRICE AND ADDITIONAL MILEAGE CHARGES FOR A COMPANY-OWNED VEHICLE MAY BE REIMBURSED IF THE TOTAL COST OF BOTH IS LESS THAN THE ESTABLISHED MILEAGE COST CEILING WILL ALLOW. NOTE: CONSULTANT TRAVEL TIME IS INCLUDED IN THE \$/MILE RATE AND IS INDEPENDENT OF PERSONNEL LEVEL OF INDIVIDUALS TRAVELING TO AND FROM THE SITE. ASSUME (2) INDIVIDUALS, EACH AT STAFF LEVEL RATE.

**PROJECT SET-UP AND ADMINISTRATION**

**18. INITIAL PROJECT SET-UP LUMP SUM**

THIS TASK IS FOR NEWLY CONFIRMED RELEASES OR FOR A NEW CONSULTANT ON SITE AND INCLUDES THE INITIAL SCHEDULING, ASSESSMENT OF PERSONNEL REQUIREMENTS, INCIDENT INFORMATION AND AGENCY REQUIREMENTS FOR THE ASSESSMENT AND POSSIBLE REMEDIATION OF THE SITE. THIS PRICE DOES NOT INCLUDE FILE COPYING COSTS. PRICE IS PER SITE. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN ITEM DESCRIPTION NOS. 135 AND 136.

**19. PREVIOUSLY ASSESSED PROJECT REVIEW LUMP SUM**

THIS TASK IS FOR AN EXISTING, CONFIRMED RELEASE, AND INCLUDES THE REVIEW OF ASSESSMENT AND CORRECTIVE ACTION FILES FROM THE CLIENT AND PREVIOUS CONSULTANT (S). FINANCIAL INFORMATION MAY ALSO BE OBTAINED FOR FUTURE REIMBURSEMENT APPLICATIONS. THIS PRICE DOES NOT INCLUDE FILE COPYING COSTS. SUMMARY OF THE INFORMATION REVIEWED MUST BE DOCUMENTED WITHIN THE LUST FILE. PRICE IS PER SITE. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN ITEM DESCRIPTION NOS. 16 AND 17.

**20. AGENCY DATA ANALYSIS LUMP SUM**

THIS TASK IS FOR AN EXISTING, CONFIRMED AND INCLUDES THE REVIEW AND ANALYSIS OF AGENCY FILES AND DATA. DATA MAY BE MAINTAINED BY FIRE DEPARTMENTS OR STATE / COUNTY ENVIRONMENTAL AGENCIES. THIS PRICE DOES NOT INCLUDE FILE COPYING COSTS. SUMMARY OF THE INFORMATION REVIEWED MUST BE DOCUMENTED WITHIN THE LUST FILE. PRICE IS PER SITE. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN ITEM DESCRIPTION NOS. 16 AND 17.

**21. SITE RECONNAISSANCE AND FIELD RECEPTOR SURVEY (1/4 MILE)**

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**LUMP SUM**

THIS TASK CONSISTS OF A SITE FEATURE INSPECTION OF THE IMMEDIATE SITE AND SURROUNDING PROPERTIES. THE INSPECTION WILL NOTE TANK LOCATION, DISPENSER LOCATION, MONITORING WELLS, AND OTHER SITE FEATURES. POTENTIAL MIGRATION PATHWAYS SUCH AS UTILITY LINES, STORM SANITARY SEWERS, CATCH BASINS AND DRAINAGE DITCHES ARE TO BE NOTED. THE SITE RECONNAISSANCE SHOULD SUFFICE FOR DEVELOPMENT OF HEALTH AND SAFETY PLANS, AND LOCATING ASSESSMENT AND REMEDIATION ACTIVITIES. THIS TASK ALSO INCLUDES THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS TO CONDUCT A PHYSICAL SEARCH WITHIN A 0.25 MILE RADIUS OF THE SITE TO LOCATE PRIVATE WELLS OR OTHER RECEPTORS AND TYPICALLY DOES NOT REQUIRE A DOOR-TO-DOOR SEARCH. PRICE IS PER SITE. THE FINAL PRODUCT FROM THIS TASK IS A FIELD GRADE MAP AND NOTES TO SUPPORT SUBSEQUENT ACTIVITIES. THE FINAL WORK PRODUCT SUMMARIZING THESE ACTIVITIES MUST BE DOCUMENTED WITHIN THE LUST FILE TO BE CONSIDERED FOR REIMBURSEMENT OF CLAIMED EXPENSES. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN ITEM DESCRIPTION NOS. 16 AND 17.

**22. AGENCY RECEPTOR SURVEY (1/4 MILE)**

**LUMP SUM**

THIS TASK CONSISTS OF THE IDENTIFICATION OF PUBLIC AND PRIVATE WATER SUPPLY WELLS WITHIN 0.25 MILES OF A SITE OR WITHIN A DEFINED AREA SET BY THE REGULATORY AGENCY. THE INFORMATION MAY BE OBTAINED USING A LOCAL WATER RESOURCE AGENCY AND USUALLY INCLUDES WELL OWNERSHIP, WELL LOCATION, WELL COMPLETION DATA, WELL USE, AND DEPTH TO WATER. THIS COST INCLUDES TIME TO SUMMARIZE THE DATA AND THE MINIMAL AGENCY FEES CHARGED TO CONDUCT SURVEY. PRICE IS PER SITE. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN ITEM DESCRIPTION NOS. 16 AND 17.

**23. HISTORICAL RESEARCH**

**LUMP SUM**

THIS TASK INCLUDES INTERVIEWS, PHOTO ANALYSIS, BUILDING PERMIT REVIEW, AND TITLE REVIEW. THE OBJECT OF THIS TASK IS TO IDENTIFY PROPERTY USE OVER THE LAST 50 YEARS. THIS TASK DOES NOT INCLUDE DIRECT COST FOR DATA ACQUISITION (I.E., COST OF TITLE SEARCH OR AERIAL PHOTO[S]). PRICE IS PER SITE. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN LINE ITEM 16 AND 17.

**24. PURSUIT OF OFF-SITE ACCESS AGREEMENT**

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**WITH A PRIVATE ENTITY ONLY**

**LS PER PARTY SOLICITATION**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS ASSOCIATED WITH PURSUIT OF AN OFF-SITE ACCESS AGREEMENT INCLUDING REVIEW OF TAX ASSESSOR RECORDS. THIS TASK ASSUMES THAT OFF-SITE ACCESS AGREEMENTS ARE PURSUED IN ACCORDANCE WITH A.R.S. 49-1022. FOR PURPOSES OF THIS TASK, REIMBURSABLE SITE ACCESS EFFORTS ARE LIMITED TO: (2) WRITTEN REQUESTS FOR ACCESS BY THE OWNER/OPERATOR, DOCUMENTED RECEIPT OF EACH WRITTEN REQUEST, AND, IF NECESSARY, A WRITTEN REQUEST BY THE OWNER/OPERATOR THAT THE ADEQ ATTEMPT TO OBTAIN ACCESS TO THE PROPERTY. THIS TASK DOES NOT INCLUDE PERMIT COSTS, OR DOCUMENT COPYING FEES. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE SET FORTH IN ITEM DESCRIPTION NOS. 16 AND 17.

**WORK PLAN PREPARATION**

**25. APPROVED SITE CHARACTERIZATION WORK PLAN  
(SOIL ONLY)**

**PER PLAN**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/APPROVED WORK PLAN) REQUIRED TO COMPLETE THE FOLLOWING ACTIVITIES: PREPARE SITE SPECIFIC WORK PLAN AS REQUIRED AND APPROVED BY ADEQ OR FOR SAF PRE-APPROVAL PURPOSES. THIS REPORT INCLUDES PROPERTY BACKGROUND, UST HISTORY DISCUSSION, AND DISCUSSION OF PROPOSED ACTIVITIES AND PREPARATION OF COST ESTIMATES AND BUDGETS. REPORT COSTS INCLUDE: SENIOR LEVEL REVIEW OF DOCUMENT, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING, AND POSTAGE. THE \$/REPORT COST INCLUDES MODIFICATION, REVISIONS, AND RESUBMITTALS NECESSARY TO OBTAIN AGENCY APPROVAL. THE \$/REPORT COST DOES NOT INCLUDE MILEAGE, PER DIEM, OR OTHER OUT-OF-OFFICE EXPENSES. NOTE: THIS ITEM DOES NOT INCLUDE SAF APPLICATION PREPARATION.

**26. APPROVED SITE CHARACTERIZATION WORK PLAN  
(SOIL AND GROUNDWATER)**

**PER PLAN**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/APPROVED WORK PLAN) REQUIRED TO COMPLETE THE FOLLOWING ACTIVITIES: PREPARE SITE SPECIFIC WORK PLAN AS REQUIRED BY ADEQ OR FOR SAF PRE-APPROVAL PURPOSES. THIS REPORT INCLUDES PROPERTY BACKGROUND, UST HISTORY DISCUSSION, AND DISCUSSION OF PROPOSED ACTIVITIES AND PREPARATION OF COST ESTIMATES AND BUDGETS. REPORT COSTS INCLUDE: SENIOR LEVEL REVIEW OF DOCUMENT, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. THE \$/REPORT COST INCLUDES MODIFICATION, REVISIONS, AND RESUBMITTALS NECESSARY TO OBTAIN AGENCY APPROVAL. THE \$/REPORT COST DOES NOT INCLUDE

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MILEAGE, PER DIEM, OR OTHER OUT-OF-OFFICE EXPENSES. NOTE: THIS ITEM DOES NOT INCLUDE SAF APPLICATION PREPARATION.

**27. INITIAL SITE CHARACTERIZATION HEALTH AND SAFETY PLAN PER PLAN**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/PLAN) REQUIRED TO COMPLETE THE FOLLOWING ACTIVITIES: PREPARE A HEALTH AND SAFETY PLAN FOR ALL SITE CHARACTERIZATION ACTIVITIES IN ACCORDANCE WITH OSHA REQUIREMENTS FOR ALL PLANNED ACTIVITIES. THIS TASK INCLUDES TIME FOR REVIEW; CLERICAL SUPPORT; AND ALL OTHER DIRECT COSTS SUCH AS COPYING AND BINDING.

**REMEDIAL PLANS**

**28. ADEQ-APPROVED CORRECTIVE ACTION PLAN (CAP) FOR ACTIVE  
REMEDIAL TREATMENT OF CONTAMINATE PER CAP**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) REQUIRED TO COMPLETE AN APPROVED CAP PROPOSING ACTIVE TREATMENT APPROACH. THE CAP MUST BE PREPARED IN ACCORDANCE WITH ADEQ CORRECTIVE ACTION GUIDANCE AND MUST INCLUDE A DISCUSSION OF FEASIBILITY TESTING METHODOLOGY AND RESULTS.

**29. ADEQ-APPROVED CORRECTIVE ACTION PLAN (CAP)  
FOR NATURAL ATTENUATION PER CAP**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) REQUIRED TO COMPLETE AN APPROVED CAP PROPOSING NATURAL ATTENUATION. THE CAP MUST BE PREPARED IN ACCORDANCE WITH ADEQ CORRECTIVE ACTION GUIDANCE AND MUST INCLUDE A DISCUSSION OF FEASIBILITY TESTING METHODOLOGY AND RESULTS.

**30. PRE-BUILT REMEDIAL ENGINEERING DESIGN PER DESIGN**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/DESIGN) NECESSARY TO COMPLETE PRE-BUILT REMEDIAL ENGINEERING DESIGN PACKAGE. AT A MINIMUM, THE DESIGN PACKAGE SHOULD INCLUDE ALL SUBGRADE AND SURFACE COMPONENT SPECIFICATIONS, SITE PLANS AND CONSTRUCTION DETAILS. NOTE: THIS ITEM ONLY PERTAINS TO DESIGN PACKAGES PREPARED FOLLOWING CAP APPROVAL TO OBTAIN CONSTRUCTION ESTIMATES AND PERMITS.

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**31. PREPARATION OF WORK PLAN TO IMPLEMENT AN ADEQ-APPROVED  
CORRECTIVE ACTION PLAN PER PLAN**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/WORK PLAN) FOR PREPARATION OF A WORK PLAN TO IMPLEMENT A PHASE(S) OF AN APPROVED CAP NOT TO EXCEED THREE YEARS IN DURATION. THE WORK PLAN SHOULD REFERENCE THE APPROVED CAP AND SUMMARIZE PROPOSED REMEDIAL ACTIVITIES. THIS TASK INCLUDES TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING AND BINDING.

**32. REMEDIATION HEALTH AND SAFETY PLAN PER PLAN**

THIS ACTIVITY CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/PLAN) REQUIRED TO COMPLETE THE FOLLOWING ACTIVITIES: PREPARE A HEALTH AND SAFETY PLAN FOR REMEDIATION ACTIVITIES IN ACCORDANCE WITH OSHA REQUIREMENTS FOR ALL PLANNED TASKS. THIS TASK INCLUDES TIME FOR REVIEW; CLERICAL SUPPORT; AND ALL OTHER DIRECT COSTS SUCH AS COPYING AND BINDING.

**FIELD ACTIVITIES**

**33. CONSULTANT' S DAY RATE PER DAY**

A CONSULTANT' S DAY RATE (\$/DAY) INCLUDES ALL ACTIVITIES AND TYPICAL FIELD EQUIPMENT NECESSARY TO CONDUCT A DAY' S WORK IN THE FIELD INCLUDING EQUIPMENT PREPARATION, LOADING, AND DECONTAMINATION. THIS RATE INCLUDES SCHEDULING AND OVERSIGHT OF ALL SITE CHARACTERIZATION AND REMEDIATION FIELD ACTIVITIES ASSOCIATED WITH BUT NOT LIMITED TO SOIL BORINGS, GROUNDWATER MONITOR/RECOVERY WELL CONSTRUCTION AND ABANDONMENT, REMEDIAL EXCAVATION, AND REMEDIAL SYSTEM INSTALLATION AND START-UP. THIS RATE INCLUDES FIELD INSTRUMENTATION APPROPRIATE FOR THE FIELD TASK PERFORMED (I.E., FID, PID, WATER LEVEL INDICATOR, PH-TEMPERATURE-CONDUCTIVITY METER, LEL/O2 METER, MOBILE PHONE, ETC).

PLEASE NOTE THAT THIS ITEM DOES NOT INCLUDE TRAVEL TO AND FROM THE SITE, VEHICLE MILEAGE OR PER DIEM. ONLY ONE DAY RATE MAY BE REIMBURSED PER 24-HOUR PERIOD PER PERSON. FOR SAF PURPOSES, A CONSULTANT MUST BE ON-SITE MORE THAN FOUR (4) HOURS. EACH INDIVIDUAL MAY CLAIM A DAY RATE IF ON SITE FOR A PERIOD GREATER THAN (4) HOURS AND LESS THAN OR EQUAL TO (8) HOURS. THE RATE IS INCLUSIVE OF STANDARD PERSONNEL RATES AND INCLUDES PROJECT MANAGEMENT RELATED ONLY TO FIELD ACTIVITIES ASSOCIATED WITH THE SPECIFIC DAY' S ACTIVITY.



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**34. CONSULTANT' S HALF DAY RATE**

**PER HALF DAY**

A CONSULTANT' S HALF DAY RATE (\$/DAY) INCLUDES ALL ACTIVITIES AND TYPICAL FIELD EQUIPMENT NECESSARY TO CONDUCT A HALF DAY' S WORK IN THE FIELD INCLUDING EQUIPMENT PREPARATION, LOADING, AND DECONTAMINATION. THIS RATE INCLUDES SCHEDULING AND OVERSIGHT OF ALL SITE CHARACTERIZATION AND REMEDIATION FIELD ACTIVITIES ASSOCIATED WITH BUT NOT LIMITED TO SOIL BORINGS, GROUNDWATER MONITOR/RECOVERY WELL CONSTRUCTION AND ABANDONMENT, REMEDIAL EXCAVATION, AND REMEDIAL SYSTEM INSTALLATION AND START-UP. THIS RATE INCLUDES FIELD INSTRUMENTATION APPROPRIATE FOR THE FIELD TASK PERFORMED (I.E., FID, PID, WATER LEVEL INDICATOR, PH/TEMPERATURE/CONDUCTIVITY METER, LEL/O2 METER, MOBILE PHONE, ETC).

PLEASE NOTE THAT THIS ITEM DOES NOT INCLUDE TRAVEL TO AND FROM THE SITE, VEHICLE MILEAGE OR PER DIEM. ONLY ONE HALF DAY RATE MAY BE REIMBURSED PER 24-HOUR PERIOD PER PERSON PER SITE. FOR SAF PURPOSES, A CONSULTANT' S HALF DAY RATE MAY BE CLAIMED FOR EACH INDIVIDUAL ON SITE FOR A PERIOD UP TO FOUR (4) HOURS. THE RATE IS INDEPENDENT OF STANDARD PERSONNEL RATES AND INCLUDES PROJECT MANAGEMENT RELATED ONLY TO FIELD ACTIVITIES ASSOCIATED WITH THE SPECIFIC ON-SITE ACTIVITY.

**CONTRACTOR UST REMOVAL AND CLOSURE**

**35. CONTRACTOR MOB/DEMOB**

**PER EVENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/EVENT) FOR THE FOLLOWING ACTIVITIES: PREPARATION AND LOADING OF ALL APPROPRIATE EQUIPMENT, MATERIALS, AND SUPPLIES, INCLUDING SUPPORT VEHICLES. THIS TASK ALSO INCLUDES ALL COSTS ASSOCIATED WITH INITIAL VEHICLE TRAVEL TO THE SITE, SITE CLEAN-UP AND RETURN TO THE YARD. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE PER MILE TRAVEL RATE SET FORTH IN MOB/DEMOB INCREMENTAL TRAVEL RATE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND INCLUDES PERSONNEL TRAVEL.

**36. CONTRACTOR MOB/DEMOB INCREMENTAL TRAVEL RATE**

**PER MILE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR INCREMENTAL MILEAGE ABOVE THE 60 MILES INCLUDED IN CONTRACTOR MOB/DEMOB (ITEM DESCRIPTION NO. 35). THIS TASK INCLUDES ALL COSTS ASSOCIATED WITH VEHICLE AND LABOR TRAVEL TO AND FROM THE SITE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND DOES NOT PERTAIN TO WORK CREW TRAVEL ON A DAILY BASIS.

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**37. CONTRACTOR DAILY TRAVEL COST PER MILE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR WORK CREW TRAVEL TO AND FROM THE SITE ON A DAILY BASIS.

**UST REMOVAL**

THIS TASK CONSISTS OF THE TOTAL CONTRACTOR PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/TANK) REQUIRED FOR THE FOLLOWING ACTIVITIES RELATED TO CLOSURE OF A SINGLE UST: ACQUISITION OF ALL NECESSARY PERMITS, FIELD SUPERVISION, TANK REMOVAL, DECOMMISSIONING, CUTTING, DISPOSAL, BACKFILL, AND SITE CLEAN-UP. FIELD SUPERVISION OF UST REMOVAL AND CLOSURE INCLUDES ALL LOGISTICS, INCLUDING PRE- AND POST-FIELD PLANNING ACTIVITIES. ASSUME NO TRAVEL OR MILEAGE, NO OVER EXCAVATION OF PETROLEUM HYDROCARBON-IMPACTED SOIL ONLY THE VOLUME OF SOIL NECESSARY TO REMOVE THE TANK, AND NO ASPHALT/CONCRETE REPLACEMENT.

**38. ONE UST LESS THAN OR EQUAL TO 4,000-GALLONS PER TANK**

**39. COST FOR EACH ADDITIONAL TANK PER TANK**

**40. ONE UST GREATER THAN 4,000-GALLONS AND LESS THAN OR EQUAL TO 15,000-GALLONS PER TANK**

**41. COST FOR EACH ADDITIONAL TANK PER TANK**

**42. ONE UST GREATER THAN 15,000-GALLONS PER TANK**

**43. COST FOR EACH ADDITIONAL TANK PER TANK**

**OFF-SITE TRANSPORTATION OF TANKS**

THIS TASK CONSISTS OF THE TOTAL CONTRACTOR PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) REQUIRED TO TRANSPORT TANK(S) OFF-SITE FOR DISPOSAL. THIS RATE INCLUDES DRIVER'S LABOR AT THE EQUIPMENT OPERATOR RATE.

**44. ONE UST LESS THAN OR EQUAL TO 4,000-GALLONS PER MILE**

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| 45. | COST FOR EACH ADDITIONAL TANK  | <u>PER MILE</u> |
| 46. | ONE UST GREATER THAN 4,000-GALLONS AND LESS THAN OR<br>EQUAL TO 15,000-GALLONS | <u>PER MILE</u> |
| 47. | COST FOR EACH ADDITIONAL TANK  | <u>PER MILE</u> |
| 48. | ONE UST GREATER THAN 15,000-GALLONS  | <u>PER MILE</u> |
| 49. | COST FOR EACH ADDITIONAL TANK  | <u>PER MILE</u> |

**CONTRACTOR DRILLING-RELATED ACTIVITIES**

**SOIL BORING AND SAMPLING MOB/DEMOB**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/EVENT) FOR THE FOLLOWING ACTIVITIES: PREPARATION AND LOADING OF ALL APPROPRIATE EQUIPMENT, MATERIALS, AND SUPPLIES, INCLUDING SUPPORT VEHICLES. THIS TASK ALSO INCLUDES ALL COSTS ASSOCIATED WITH INITIAL RIG AND SUPPORT VEHICLE TRAVEL TO THE SITE, SITE CLEAN-UP AND RETURN TO THE YARD. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE PER MILE TRAVEL RATE SET FORTH IN THE SOIL BORING AND SAMPLING TRAVEL RATE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT.

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| 50. | HOLLOW STEM AUGER DRILLING METHOD                                      | <u>PER EVENT</u> |
| 51. | ALL OTHER DRILLING METHODS<br>(I.E. PERCUSSION, AIR ROTARY, ROTASONIC) | <u>PER EVENT</u> |

**SOIL BORING AND SAMPLING TRAVEL RATE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR INCREMENTAL MILEAGE ABOVE THE 60 MILES INCLUDED IN CONTRACTOR - MOB/DEMOB (COST CEILING LINE ITEM Nos. 50 AND 51). THIS TASK INCLUDES ALL COSTS ASSOCIATED WITH INITIAL RIG AND SUPPORT VEHICLE TRAVEL TO AND FROM THE SITE. SITE CLEAN-UP AND RETURN TO THE YARD. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND DOES NOT PERTAIN TO DRILL CREW TRAVEL ON A DAILY BASIS.

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| 52. | HOLLOW STEM AUGER DRILLING METHOD | <u>PER MILE</u> |
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**53. ALL OTHER DRILLING METHODS**  
**(LE PERCUSSION, AIR ROTARY, ROTOSONIC)** **PER MILE**

**54. SOIL BORING AND SAMPLING DAILY TRAVEL RATE** **PER MILE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR DRILL CREW TRAVEL TO AND FROM THE SITE ON A DAILY BASIS.

**SOIL BORING AND SAMPLING**

THIS TASK CONSISTS OF THE TOTAL COST PER FOOT (\$/FOOT) PER BORING FOR THE FOLLOWING ITEMS/ACTIVITIES PERFORMED IN ACCORDANCE WITH ADEQ GUIDANCE AT THE TIME WORK IS CONDUCTED. THE TASK INCLUDES: DRILL RIG SUPPORT VEHICLES AND CREW; SOIL SAMPLING AT APPROXIMATE 5 TO 10 FOOT INTERVALS; DECONTAMINATION PROCEDURES; SAMPLING EQUIPMENT; MOVING BETWEEN BOREHOLE LOCATIONS; BRASS SLEEVES AND ASSOCIATED SAMPLE COLLECTION AND PRESERVATION MATERIALS, AND DRILLING CONSUMABLES/BITS. SURFACE COMPLETION IS NOT INCLUDED IN THE PER FOOT COSTS FOR DRILLING. STORAGE, (STOCKPILE OF SOIL ON VISQUEEN), TRANSPORTATION AND DISPOSAL OF DRILL CUTTINGS, DECONTAMINATE RINSATE, AND ADDITIONAL INVESTIGATION-DERIVED FLUIDS ARE NOT INCLUDED IN THE SOIL BORING AND SAMPLING ITEM RATE. THIS ITEM APPLIES TO ALL BOREHOLE FOOTAGE DRILLED. ASSUME NO CONCRETE CORING, NO RESTRICTED ACCESS, AND NO MOB/DEMOB OR TRAVEL.

**55. Hollow Stem Auger Drilling Method- Vertical Boring** **PER FOOT**

**56. Hollow Stem Auger Drilling Method- Angle Boring** **PER FOOT**

**57. Limited Access Drilling Method- Vertical Boring** **PER**  
**FOOT**

**58. Air Rotary Drilling Method- Vertical Boring** **PER FOOT**

**59. ROTOSONIC DRILLING METHOD- VERTICAL BORING** **PER FOOT**

**60. DUAL WALL PERCUSSION DRILLING METHOD- VERTICAL BORING** **PER FOOT**

**61. DUAL WALL PERCUSSION DRILLING METHOD - ANGLE BORING** **PER FOOT**

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- 62. SOIL BORING ABANDONMENT BY GROUT:**  
**(ALL BORING DIAMETERS)** **PER FOOT**

THIS TASK CONSISTS OF THE TOTAL COST PER FOOT (\$/FOOT) PER BORING FOR THE LABOR AND MATERIALS ASSOCIATED WITH THE ABANDONMENT OF SOIL BORINGS BY GROUTING. ASSUME NO MOB/DEMOB OR MILEAGE.

- 63. CONTRACTOR STANDBY RATE, HOLLOW STEM AUGER** **PER HOUR**

THIS TASK CONSISTS OF THE HOURLY STANDBY RATE (\$/HOUR) FOR A HOLLOW STEM AUGER. COSTS ARE REIMBURSABLE FOR DOWNTIME DUE TO WAITING ON MOBILE - LABORATORY RESULTS ONLY.

- 64. CONTRACTOR STANDBY RATE, ALL OTHER RIG TYPES** **PER HOUR**

THIS TASK CONSISTS OF THE HOURLY STANDBY RATE (\$/HOUR) FOR ALL OTHER RIG TYPES. RATES ARE REIMBURSABLE FOR DOWNTIME DUE WAITING ON MOBILE - LABORATORY RESULTS ONLY.

**WELL INSTALLATION**

THIS TASK CONSISTS OF THE TOTAL COST PER FOOT (\$/FOOT) PER WELL FOR THE FOLLOWING ITEMS/ACTIVITIES PERFORMED IN ACCORDANCE WITH ADEQ GUIDANCE AT THE TIME WORK IS CONDUCTED. THE TASK INCLUDES: DRILL RIG SUPPORT VEHICLES AND CREW; SOIL SAMPLING AT APPROXIMATE 5 TO 10 FOOT INTERVALS; DECONTAMINATION PROCEDURES; SAMPLING EQUIPMENT; MOVING BETWEEN WELLS; BRASS SLEEVES AND ASSOCIATED SAMPLE COLLECTION AND PRESERVATION MATERIALS; DRILLING CONSUMABLES/BITS; WELL INSTALLATION; WELL MATERIALS. SURFACE COMPLETION IS NOT INCLUDED IN THE PER FOOT COSTS FOR DRILLING AND WELL INSTALLATION. STORAGE, (STOCKPILE OF SOIL ON VISQUEEN), TRANSPORTATION AND DISPOSAL OF DRILL CUTTINGS, DECONTAMINATE RINSATE, AND ADDITIONAL INVESTIGATION-DERIVED FLUIDS IS NOT INCLUDED IN THE WELL INSTALLATION ITEM RATE. THIS TASK APPLIES TO ALL FOOTAGES. ASSUME NO CONCRETE CORING, NO RESTRICTED ACCESS, NO NESTED WELL CONFIGURATION, NO MOB/DEMOB OR TRAVEL. [WHEN CALCULATING COSTS FOR A TYPICAL SITE, ASSUME SCHEDULE 40 PVC PIPING AND 30 FEET OF SCREEN INTERVAL].

- 65. 2-INCH HOLLOW STEM AUGER** **PER FOOT**

- 66. 4-INCH HOLLOW STEM AUGER** **PER FOOT**

- 67. 6-INCH HOLLOW STEM AUGER** **PER FOOT**

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68.	2-INCH AIR ROTARY	<b><u>PER FOOT</u></b>
69.	4-INCH AIR ROTARY	<b><u>PER FOOT</u></b>
70.	6-INCH AIR ROTARY	<b><u>PER FOOT</u></b>
71.	2-INCH ROTOSONIC	<b><u>PER FOOT</u></b>
72.	4-INCH ROTOSONIC	<b><u>PER FOOT</u></b>
73.	6-INCH ROTOSONIC	<b><u>PER FOOT</u></b>
74.	2-INCH DUAL WALL PERCUSSION	<b><u>PER FOOT</u></b>
75.	4-INCH DUAL WALL PERCUSSION	<b><u>PER FOOT</u></b>
76.	6-INCH DUAL WALL PERCUSSION	<b><u>PER FOOT</u></b>

77. MONITOR WELL SURFACE COMPLETION: ACCESS MANHOLE <= 12"

**PER WELL**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/WELL) REQUIRED TO INSTALL A THREE (3) FOOT SQUARE OR LESS CONCRETE PAD WITH TRAFFIC RATED (FLUSH) MANHOLE/VAULT IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS. NO MOB/DEMOB OR TRAVEL.

78. MONITOR WELL SURFACE COMPLETION CONTRACTOR COST:  
ACCESS MANHOLE > 12" TO <= 24"

**PER WELL**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/WELL) REQUIRED TO INSTALL A FOUR (4) FOOT SQUARE OR LESS CONCRETE PAD WITH TRAFFIC RATED (FLUSH) MANHOLE/VAULT IN ACCORDANCE WITH APPLICABLE ASTM STANDARDS. NO MOB/DEMOB OR TRAVEL.

**CONTRACTOR MONITOR WELL DEVELOPMENT**

79. MOB/DEMOB **PER EVENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/EVENT) FOR THE FOLLOWING ACTIVITIES: PREPARATION AND LOADING OF ALL

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APPROPRIATE EQUIPMENT, MATERIALS, AND SUPPLIES, INCLUDING SUPPORT VEHICLES. THIS TASK INCLUDES UP TO 60-MILES ROUND TRIP. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE PER MILE TRAVEL RATE SET FORTH IN LINE ITEM BELOW. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT.

**80. TRAVEL COST**

**PER MILE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR INCREMENTAL MILEAGE ABOVE THE 60 MILES INCLUDED IN CONTRACTOR - MOB/DEMOB. THIS TASK INCLUDES ALL COSTS ASSOCIATED WITH INITIAL RIG AND SUPPORT VEHICLE TRAVEL TO AND FROM THE SITE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND DOES NOT PERTAIN TO DRILL CREW TRAVEL ON A DAILY BASIS.

**MONITOR WELL DEVELOPMENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) REQUIRED TO DEVELOP A NEWLY INSTALLED MONITORING WELL IN ACCORDANCE WITH THE CURRENT PUBLISHED ADEQ QUALITY ASSURANCE PLAN AND INCLUDES ALL APPROPRIATE SURFACE AND DOWNHOLE EQUIPMENT, FIELD INSTRUMENTATION, AND DECONTAMINATION EQUIPMENT. ASSUME NO LOW YIELD WELLS, NO MOB/DEMOB/TRAVEL, NO CONSULTANT SUPERVISION, AND TYPICAL SITE CLEAN-UP. THIS TASK DOES NOT PERTAIN TO PURGING ASSOCIATED WITH GROUNDWATER MONITORING AND SAMPLING. NOTE: STORAGE, TRANSPORTATION AND DISPOSAL OF INVESTIGATION-DERIVED WASTE IS NOT INCLUDED.

**81. 2-INCH MONITOR WELL: DEPTH TO WATER  
LESS THAN 100 FEET**

**PER WELL**

**82. 2-INCH MONITOR WELL: DEPTH TO WATER EQUAL TO  
OR GREATER THAN 100 FEET**

**PER WELL**

**83. 4-INCH MONITOR WELL: DEPTH TO WATER  
LESS THAN 100 FEET**

**PER WELL**

**84. 4-INCH MONITOR WELL: DEPTH TO WATER EQUAL TO  
OR GREATER THAN 100 FEET**

**PER WELL**

**85. 6-INCH MONITOR WELL: DEPTH TO WATER  
LESS THAN 100 FEET**

**PER WELL**

**86. 6-INCH MONITOR WELL: DEPTH TO WATER EQUAL TO**

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**OR GREATER THAN 100 FEET** **PER WELL**  
**GROUNDWATER MONITORING AND SAMPLING**

**87. CONSULTANT MAKE READY** **PER EVENT**

THIS TASK INCLUDES PREPARATION AND LOADING OF APPROPRIATE EQUIPMENT, MATERIALS, AND SUPPLIES NECESSARY FOR GROUNDWATER MONITORING AND SAMPLING AND IS INCLUSIVE OF INDIVIDUAL LABOR RATES. THIS TASK DOES NOT INCLUDE MILEAGE.

**88. GROUNDWATER MONITORING FIELD EQUIPMENT DAY RATE** **PER DAY**  
**(PURGING )**

THIS ITEM INCLUDES NECESSARY PURGING AND SAMPLING EQUIPMENT AND INSTRUMENTATION (I.E., PUMP, GENERATOR, BAILERS, ROPES, ORGANIC VAPOR ANALYZERS, PH/EC/TEMPERATURE/CONDUCTIVITY METER(S), MOBILE PHONE, WATER LEVEL MEASUREMENT DEVICE, ETC).

**89. GROUNDWATER MONITORING FIELD EQUIPMENT DAY RATE** **PER DAY**  
**(NON-PURGING)**

THIS ITEM INCLUDES SAMPLING EQUIPMENT AND INSTRUMENTATION NECESSARY DURING A NON-PURGING SAMPLE EVENT (I.E., BAILERS, ROPES, ORGANIC VAPOR ANALYZERS, PH/EC/TEMPERATURE/CONDUCTIVITY METER(S), MOBILE PHONE, WATER LEVEL MEASUREMENT DEVICE, ETC).

**COMPLIANCE SAMPLING METHODOLOGY**  
**(PURGING IS REQUIRED)**

THIS TASK CONSISTS OF THE FOLLOWING FIELD ACTIVITIES: PERIODIC WELL PURGING AND SAMPLING; SAMPLE STORAGE, AND ASSUME PURGING IS REQUIRED FOR SAMPLING (I.E. COMPLIANCE SAMPLING). THIS TASK ASSUMES A MINIMUM RECHARGE OF 80 % RECOVERY IN 60 MINUTES PRIOR TO GROUNDWATER SAMPLE COLLECTION. COLLECTION OF STATIC WATER LEVEL DATA IS INCLUDED IN THE PERIODIC WELL SAMPLING RATE. THIS ITEM INCLUDES ALL FIELD. THIS TASK INCLUDES PROJECT MANAGEMENT RELATED TO THIS ACTIVITY ONLY.

**90. 2-INCH MONITOR WELL: DEPTH TO WATER**  
**LESS THAN 100 FEET** **PER WELL**

**91. 2-INCH MONITOR WELL: DEPTH TO WATER EQUAL TO**



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|     | <b>OR GREATER THAN 100 FEET</b>  | <b><u>PER WELL</u></b> |
| 92. | <b>4-INCH MONITOR WELL: DEPTH TO WATER<br/>LESS THAN 100 FEET</b>                | <b><u>PER WELL</u></b> |
| 93. | <b>4-INCH MONITOR WELL: DEPTH TO WATER EQUAL TO<br/>OR GREATER THAN 100 FEET</b> | <b><u>PER WELL</u></b> |
| 94. | <b>6-INCH MONITOR WELL: DEPTH TO WATER<br/>LESS THAN 100 FEET</b>                | <b><u>PER WELL</u></b> |
| 95. | <b>6-INCH MONITOR WELL: DEPTH TO WATER EQUAL TO<br/>OR GREATER THAN 100 FEET</b> | <b><u>PER WELL</u></b> |
| 96. | <b>INVESTIGATIVE SAMPLING METHODOLOGY<br/>(PURGING IS NOT REQUIRED)</b>          | <b><u>PER WELL</u></b> |

THIS TASK CONSISTS OF A TOTAL DOLLAR PER WELL (\$/WELL) ESTIMATE TO CONDUCT GROUNDWATER MONITORING AND SAMPLING. THIS TASK ASSUMES PURGING IS NOT REQUIRED FOR SAMPLING (I.E. INVESTIGATIVE SAMPLING) AND IS INDEPENDENT OF WELL DIAMETER, DEPTH OF WELL AND DEPTH TO WATER; NECESSARY GROUNDWATER SAMPLING EQUIPMENT; SAMPLE STORAGE, AND ASSUME COLLECTION OF STATIC WATER LEVEL DATA IS INCLUDED IN WELL SAMPLING RATE. THIS ITEM INCLUDES ALL FIELD TIME. THIS TASK INCLUDES PROJECT MANAGEMENT RELATED TO THIS ACTIVITY ONLY.

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| 97. | <b>CONSULTANT FLUID LEVEL MONITORING</b> | <b><u>PER WELL</u></b> |
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THIS TASK INCLUDES THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) FOR ON-SITE COLLECTION OF PERIODIC FREE PRODUCT AND/OR GROUNDWATER ELEVATION MEASUREMENTS, MEASUREMENT OF FREE PRODUCT THICKNESS AND/OR GROUNDWATER ELEVATIONS. THIS TASK ALSO INCLUDES TASK-SPECIFIC PROJECT MANAGEMENT.

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| 98. | <b>FREE PRODUCT REMOVAL VIA HAND BAILING<br/>OR HAND PUMPING</b> | <b><u>PER WELL</u></b> |
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THIS TASK CONSISTS OF THE TOTAL PERSONNEL FIELD TIME, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) REQUIRED FOR MANUAL FREE PRODUCT REMOVAL. THIS RATE INCLUDES TIME TO TRANSFER FLUID INTO PROPER CONTAINMENT AS WELL AS PERSONNEL TIME TO TABULATE PRODUCT RECOVERY DATA. THIS TASK ALSO INCLUDES TASK-SPECIFIC PROJECT MANAGEMENT.

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**99. FREE PRODUCT REMOVAL VIA DEDICATED REMOVAL DEVICE PER WELL**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL FIELD TIME, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) REQUIRED FOR EMPTYING A DEDICATED REMOVAL DEVICE (I.E., SKIMMER). THIS RATE INCLUDES TIME TO TRANSFER FLUID INTO PROPER CONTAINMENT AS WELL AS PERSONNEL TIME TO TABULATE PRODUCT RECOVERY DATA. THIS TASK ALSO INCLUDES TASK-SPECIFIC PROJECT MANAGEMENT.

**PILOT AND FEASIBILITY TESTING**

**100. AQUIFER PUMP TEST PER  
EVENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, AQUIFER TEST EQUIPMENT, AND MATERIAL COST (\$/EVENT) REQUIRED TO CONDUCT A 12-HOUR CONSTANT RATE AQUIFER TEST FOLLOWED BY A RECOVERY TEST THAT IS CONDUCTED FOR A DURATION THAT ALLOWS STATIC CONDITIONS TO BE ACHIEVED OR FOR A MAXIMUM DURATION OF 12 HOURS, WHICHEVER OCCURS FIRST. THIS TASK INCLUDES ALL NECESSARY FIELD PERSONNEL AND EQUIPMENT TO CONDUCT ONE AQUIFER TEST PER THE FOLLOWING ASSUMPTIONS:

COST INCLUDES TASK-SPECIFIC PROJECT MANAGEMENT AND OVERSIGHT, MOB/DEMOB (THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF UP TO 60 MILES, INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE), MAKE READY, FIELD SUPERVISION, PROJECT LOGISTICS, DATA LOGGING, COLLECTION OF SAMPLES. COST ASSUMES MONITORING AND ANALYZING DATA FROM BASIC FOUR WELL CONFIGURATION (I.E., ONE PUMPING AND THREE MONITORING WELLS). FIELD PERSONNEL WILL BE ON SITE DURING THE PERIOD OF ACTIVE PUMPING AS WELL AS RECOVERY TESTING. EQUIPMENT INCLUDES PUMP AND CONTROLLER, FLOW METER, PLUMBING, DATALOGGER / PRESSURE TRANSDUCER, WATER LEVEL INDICATORS, AND A GENERATOR. DATA EVALUATION SUCH AS THEIS AND JACOB SOLUTIONS AND RANGE AND MEAN VALUES OF HYDRAULIC CONDUCTIVITY IS INCLUDED IN THIS TASK. REPORTING OF ACTIVITIES ASSOCIATED WITH THIS TASK ARE TO BE INCLUDED IN THE CAP.

THIS TASK DOES NOT INCLUDE PERMITTING OR CHARACTERIZATION, CONTAINERIZATION, TRANSPORTATION, AND DISPOSAL OF TEST-DERIVED WASTE. A CONSULTANT' S DAY RATE CAN NOT BE CLAIMED IN ADDITION TO THE PER EVENT RATE SET FORTH IN THIS DESCRIPTION.

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**101. AQUIFER SLUG TEST**

**PER EVENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, AQUIFER TEST EQUIPMENT, AND MATERIAL COST (\$/EVENT) REQUIRED TO CONDUCT A SLUG TEST AT 3 GROUNDWATER MONITOR WELLS (SLUG IN AND SLUG OUT). COST INCLUDES MOB/DEMOB (THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF UP TO 60 MILES, INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE), MAKE READY, FIELD SUPERVISION, PROJECT LOGISTICS, DATA LOGGING, COLLECTION OF SAMPLES, DATA ANALYSIS, AND DATA COMPILATION, AND TASK-SPECIFIC PROJECT MANAGEMENT AND OVERSIGHT. THIS TASK ASSUMES THAT ONE 10-HOUR FIELD DAY IS REQUIRED TO CONDUCT THE TEST (A CONSULTANT'S DAY RATE CAN NOT BE CLAIMED IN ADDITION TO THE PER EVENT RATE SET FORTH HERE). EQUIPMENT INCLUDES: SLUGS, ROPE, DECONTAMINATION EQUIPMENT, WATER LEVEL INDICATOR, DATALOGGER / PRESSURE TRANSDUCER. THE ANALYSIS METHOD IS TO INCLUDE JACOB, BIRSCHENK, OR OTHER INDUSTRY STANDARD METHODOLOGIES. THIS TASK DOES NOT INCLUDE CHARACTERIZATION OR DISPOSAL OF THE WATER RESULTING FROM THE TESTING. ADDITIONALLY, DATA ANALYSIS IS INCLUDED IN THIS TASK (REPORTING OF ACTIVITIES ASSOCIATED WITH THIS TASK IS TO BE INCLUDED IN THE CAP).

**102. SOIL VAPOR EXTRACTION (SVE) TEST**

**PER EVENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, SVE TEST EQUIPMENT, AND MATERIAL COSTS (\$/EVENT) REQUIRED TO CONDUCT AN 8-HOUR (MULTIPLE STEPPED) SOIL VAPOR EXTRACTION PILOT TEST. COST ASSUMES ONE TEST UTILIZING ONE CENTRAL VAPOR EXTRACTION WELL AND UP TO FOUR LATERAL MONITORING POINTS, THE SVE WELL AND MONITORING POINTS ARE ALREADY IN PLACE, NO DEWATERING IN CONJUNCTION WITH VENTING, NO OFF-GAS TREATMENT INCLUDED IN BASIC COST, AND A MINIMUM OF ONE OFF-GAS SAMPLE IS COLLECTED FOR ANALYSIS. COSTS INCLUDE MOB/DEMOB (THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF UP TO 60 MILES, INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE), MAKE READY, FIELD SUPERVISION, PROJECT LOGISTICS, TASK-SPECIFIC PROJECT MANAGEMENT AND OVERSIGHT, DATA LOGGING, AND COLLECTION OF VAPOR SAMPLES. ADDITIONALLY, DATA ANALYSIS IS INCLUDED IN THIS TASK (REPORTING OF ACTIVITIES ASSOCIATED WITH THIS TASK IS TO BE INCLUDED IN THE CAP). COST DOES NOT INCLUDE WELL INSTALLATION, CONTAINERIZATION, TRANSPORTATION OR DISPOSAL OF TEST-DERIVED WASTE. THIS PRICE DOES NOT INCLUDE PILOT TEST EQUIPMENT, PERMITTING AND CHARACTERIZATION OR DISPOSAL OF THE FLUIDS GENERATED DURING TESTING. A CONSULTANT'S DAY RATE MAY NOT BE CLAIMED IN ADDITION TO THE PER EVENT RATE SET FORTH IN THIS DESCRIPTION.

**103. SVE/ AIR SPARGE TEST**

**PER EVENT**

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THIS TASK CONSISTS OF THE TOTAL PERSONNEL, SVE AND AIR SPARGE TEST EQUIPMENT, AND MATERIAL COSTS (\$/EVENT) REQUIRED TO CONDUCT A 2-DAY (MULTIPLE STEPPED) COMBINATION SVE AND AIR SPARGE PILOT TEST. COST ASSUMES UTILIZATION OF ONE CENTRAL VAPOR EXTRACTION WELL, ONE AIR SPARGE WELL AND UP TO FIVE LATERAL MONITORING POINTS. COST INCLUDES MOB/DEMOB (THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF UP TO 60 MILES, INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE), MAKE READY, FIELD SUPERVISION, PROJECT LOGISTICS, TASK-SPECIFIC PROJECT MANAGEMENT AND OVERSIGHT, DATA LOGGING, COLLECTION OF VAPOR AND GROUNDWATER SAMPLES. ADDITIONALLY, DATA ANALYSIS IS INCLUDED IN THIS TASK (REPORTING OF ACTIVITIES ASSOCIATED WITH THIS TASK IS TO BE INCLUDED IN THE CAP). SVE/AIR SPARGE PILOT TEST UNIT, PERMITTING AND CHARACTERIZATION, TRANSPORTATION AND DISPOSAL OF FLUIDS GENERATED DURING TESTING IS NOT INCLUDED. A CONSULTANT'S DAY RATE CAN NOT BE CLAIMED IN ADDITION TO THE PER EVENT RATE SET FORTH IN THIS DESCRIPTION.

THIS TASK ASSUMES THE FOLLOWING: SPARGE AND MONITORING POINTS ARE IN PLACE PRIOR TO THE TEST, AND PERMITTING, OFF-GAS TREATMENT, AND DEWATERING IS NOT INCLUDED IN THE BASIC COST.

**104. BIOREMEDIATION TEST**

**PER EVENT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, BIOVENTING PILOT TEST EQUIPMENT, AND MATERIAL COSTS (\$/EVENT) REQUIRED TO CONDUCT AN 10-HOUR (MULTIPLE STEPPED) AIR INJECTION PILOT TEST AND FOLLOW UP RESPIRATION MONITORING. COST ASSUMES ONE TEST UTILIZING ONE CENTRAL AIR INJECTION WELL AND UP TO FIVE LATERAL MONITORING POINTS. COST FURTHER ASSUMES AN ADDITIONAL THREE DAY FOLLOW-UP PERIOD FOR RESPIRATION MONITORING (ONE TWO-HOUR RESPIRATION MONITORING PERIOD PER DAY). COST INCLUDES MOB/DEMOB (THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF UP TO 60 MILES, INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE APPROPRIATE CONSULTANT MILEAGE RATE), MAKE READY, FIELD SUPERVISION, PROJECT LOGISTICS, TASK-SPECIFIC PROJECT-MANAGEMENT AND OVERSIGHT, DATA RECORDING, COLLECTION OF VAPOR SAMPLES, DATA ANALYSIS, AND DATA COMPILATION. REPORTING ASSOCIATED WITH THIS TASK IS TO BE INCLUDED IN THE CAP. THIS TASK DOES NOT INCLUDE WELL INSTALLATION OR CONTAINERIZATION, TRANSPORTATION OR DISPOSAL OF TEST-DERIVED WASTE. A CONSULTANT'S DAY RATE CAN NOT BE CLAIMED IN ADDITION TO THE PER EVENT RATE SET FORTH IN THIS DESCRIPTION.

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**105. REMEDIAL EXCAVATION**

**PER CUBIC YARD**

THIS TASK CONSISTS OF THE TOTAL PRICE PER CUBIC YARD (\$/YD<sup>3</sup>) FOR THE FOLLOWING ITEM: BULK SOIL EXCAVATION (CONTAMINATED SOIL) FOR ALL TONNAGE. INCLUDES TOTAL PERSONNEL AND EQUIPMENT NECESSARY TO COMPLETE SOIL EXCAVATION. AND LOADING OF NON-CONTAINERIZED BULK SOIL. ASSUME NO TRENCHING AROUND UTILITY LINES AND/OR BUILDING FOUNDATIONS.

**106. BULK SOIL TRANSPORTATION**

**PER TON**

THIS TASK CONSISTS OF THE TOTAL PRICE PER TON (\$/TON) FOR THE FOLLOWING ITEM: BULK SOIL TRANSPORTATION OF CONTAMINATED SOIL, CLEAN SOIL, OR IMPORTED BACKFILL [ALL TONNAGES]. THIS ITEM INCLUDES TRAVEL UP TO 60 MILES ROUND TRIP.

**107. BACKFILL AND COMPACTION**

**PER TON**

THIS TASK CONSISTS OF THE TOTAL PRICE PER TON (\$/TON) FOR THE FOLLOWING ITEM: TOTAL PERSONNEL AND EQUIPMENT COSTS NECESSARY TO BACKFILL AND COMPACT A REMEDIAL EXCAVATION. THIS ITEM INCLUDES ALL MOB/DEMOB OF PERSONNEL AND EQUIPMENT. THIS TASK ASSUMES THE USE OF IMPORT BACKFILL MATERIAL AND INCLUDES DENSITY TESTING AND REPORTING.

**108. CONTAINERIZED CONTAMINATED WATER DISPOSAL**

**PER DRUM**

THIS TASK INCLUDES PROPER DISPOSAL OF CONTAINERIZED CONTAMINATED WATER AT AN ADEQ APPROVED FACILITY. THIS PRICE DOES NOT INCLUDE CONSULTANT'S TIME TO CHARACTERIZE OR MANIFEST THE WATER FOR DISPOSAL AND/OR ANALYTICAL COST.

**109. CONTAINERIZED CONTAMINATED SOIL DISPOSAL**

**PER DRUM**

THIS TASK INCLUDES PROPER DISPOSAL OF CONTAINERIZED CONTAMINATED SOIL AT AN ADEQ APPROVED FACILITY. THIS PRICE DOES NOT INCLUDE CONSULTANT'S TIME TO CHARACTERIZE OR MANIFEST THE SOIL FOR DISPOSAL.

**110. WASTE CHARACTERIZATION**

**PER EVENT**

THIS TASK ASSUMES THE CONSULTANT HAS OBTAINED THE PROPER REQUIRED ANALYTICAL LABORATORY RESULT TO CHARACTERIZE THE SPECIFIC LIQUID OR SOLID CONTAMINATED WASTE. THE PRICE INCLUDES PREPARATION OF WASTE

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CHARACTERIZATION PAPERWORK FOR CLIENT SIGNATURE (S) (I.E., MANIFEST, PROFILE SHEETS, ETC.). THIS TASK INCLUDES TASK-SPECIFIC PROJECT MANAGEMENT AND OVERSIGHT, BIDDING, COORDINATION, SCHEDULING AND FIELD SUPERVISION OF THE REMOVAL AND DISPOSAL OF NON-HAZARDOUS WASTE. THIS DOES NOT INCLUDE ANALYTICAL COST.

**111. LANDFILL DISPOSAL OF PETROLEUM CONTAMINATED SOIL PER TON**

THIS TASK CONSISTS OF THE TOTAL PRICE PER TON (\$/TON) FOR LANDFILL DISPOSAL OF PETROLEUM CONTAMINATED SOIL AT A PROPERLY PERMITTED LANDFILL FACILITY. THIS TASK DOES NOT INCLUDE MOB/DEMOB OR TRANSPORTATION COSTS FOR EQUIPMENT AND/OR PERSONNEL.

**112. THERMAL REMEDIATION OF PETROLEUM CONTAMINATED SOIL  
(EX-SITU, ON-SITE, UTILIZING A PORTABLE FACILITY) PER TON**

THIS TASK CONSISTS OF THE TOTAL PRICE PER TON (\$/TON) FOR THE FOLLOWING ACTIVITY: ON-SITE, EX-SITU THERMAL REMEDIATION OF PCS USING A PERMITTED PORTABLE FACILITY.

**113. THERMAL REMEDIATION OF PETROLEUM CONTAMINATED SOIL  
(EX-SITU, OFF-SITE, UTILIZING A FIXED FACILITY) PER TON**

FOR QUANTITIES GREATER THAN 40 TONS, THIS TASK CONSISTS OF THE TOTAL PRICE PER TON (\$/TON) FOR THE FOLLOWING ACTIVITY: OFF-SITE, EX-SITU THERMAL REMEDIATION OF PCS USING A PERMITTED FIXED FACILITY.

**114. BIOREMEDIATION OF PETROLEUM CONTAMINATED SOIL  
(EX-SITU, OFF-SITE, UTILIZING A FIXED FACILITY) PER TON**

THIS TASK CONSISTS OF THE TOTAL PRICE PER TON (\$/TON) FOR THE FOLLOWING ITEM: OFF-SITE, EX-SITU BIOREMEDIATION OF PCS AT PERMITTED FIXED FACILITY. DOES NOT APPLY TO ON-SITE PORTABLE BIOREMEDIATION FACILITY.

**115. CONSTRUCTION AND INSTALLATION OF SOIL AND/OR  
GROUNDWATER REMEDIAL SYSTEM PER EVENT (SEE BID PROCESS)**

THIS TASK CONSISTS OF THE TOTAL CONTRACTOR PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/EVENT) FOR INSTALLATION OF A TURNKEY SOIL AND/OR GROUNDWATER REMEDIAL SYSTEM. THE COST INCLUDES TRANSPORTATION AND DISPOSAL OF CONSTRUCTION DEBRIS. THIS TASK REQUIRES A MINIMUM OF (3) QUOTES. ADEQ WILL ONLY REIMBURSE UP TO THE LOWEST QUALIFIED BID (SEE SAF BID PROCESS

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WITHIN THE GENERAL NOTES SECTION).

**116. REMEDIAL SYSTEM OPERATION AND MAINTENANCE PER MONTH**

THIS TASK INCLUDES THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/MONTH) TO OPERATE AND MAINTAIN A REMEDIAL SYSTEM. PERIODIC AIR/VAPOR SAMPLING EVENTS CONDUCTED TO MEET OPERATIONS AND PERMIT REQUIREMENTS ARE TO BE PERFORMED IN CONJUNCTION WITH REGULARLY SCHEDULED O&M VISITS. REGULAR REPAIRS AND MAINTENANCE ACTIVITIES SUCH AS FILTER AND HOSE CHANGE OUT, SYSTEM LUBRICATION, AND CARBON EXCHANGE ARE INCLUDED. SYSTEM MONITORING AND SAMPLING INSTRUMENTATION ALSO IS INCLUDED IN THIS TASK. THIS TASK DOES NOT INCLUDE MAJOR REPAIRS, EXTENSIVE TROUBLE SHOOTING OR ANALYTICAL FEES. THIS ACTIVITY INCLUDES MAKE READY / PREPARATION AND TASK-SPECIFIC PROJECT MANAGEMENT AND ASSUMES TWO (2) SITE VISITS PER MONTH. THIS TASK DOES NOT INCLUDE UTILITY COSTS AND MILEAGE.

**REPORTING ACTIVITIES**

**117. 14-DAY RELEASE CONFIRMATION REPORT PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS TO PREPARE AND SUBMIT THE ONE TO FOUR PAGE RELEASE CONFIRMATION REPORT IN RESPONSE TO A CONFIRMED RELEASE BASED ON THE PRESENCE OF FREE PRODUCT OR LABORATORY DETECTABLE CONTAMINANT CONCENTRATIONS. THIS REPORT IS TO BE PREPARED IN ACCORDANCE WITH ADEQ RELEASE REPORTING REQUIREMENTS. THIS TASK ALSO INCLUDES A TELEPHONE CALL FOR 24 HOUR RELEASE NOTIFICATION.

**ADEQ-APPROVED STANDARD SITE CHARACTERIZATION REPORT**

**118. ADEQ-APPROVED STANDARD SITE CHARACTERIZATION REPORT  
UP TO (4) SOIL BORINGS PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) TO COMPLETE A SITE CHARACTERIZATION REPORT (SCR). THE SCR SHOULD INCLUDE A SITE CONCEPTUAL MODEL, DATA COLLECTION, EVALUATION AND DOCUMENTATION INCLUDING ALL FIGURES AND REPORTS IN THE FORMAT SPECIFIED BY THE ADEQ SITE CHARACTERIZATION MANUAL (SCM) GUIDANCE. REQUIRED ATTACHMENTS TO THE SCR INCLUDE A SITE LOCATION MAP, SITE PLAN, SOIL

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CONTAMINATION MAP, GEOLOGIC CROSS SECTIONS, SOIL SAMPLING ANALYTICAL RESULTS, LABORATORY REPORTS, CHAIN-OF-CUSTODY AND LABORATORY QA/QC. ACTIVITIES INCLUDE THE PERSONNEL TIME FOR PREPARATION OF THE REPORT INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. THE SITE CHARACTERIZATION REPORT SHOULD ONLY BE SUBMITTED IF THE SITE HAS BEEN ADEQUATELY DEFINED IN ACCORDANCE WITH ADEQ GUIDANCE. FIELD TIME FOR PILOT AND FEASIBILITY TESTS ARE NOT TO BE INCLUDED IN THE REPORT PREPARATION TASK.

**119. ADEQ- APPROVED STANDARD SITE CHARACTERIZATION REPORT  
INCREMENTAL COST INCREASE PER SOIL BORING**

**PER  
BORING**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/BORING) FOR EACH ADDITIONAL BORING OVER AND ABOVE THE 4 SOIL BORINGS.

**120. ADEQ-APPROVED STANDARD SITE CHARACTERIZATION REPORT  
UP TO (4) GROUNDWATER MONITOR WELLS**

**PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) TO COMPLETE THE SCR. THE SCR SHOULD INCLUDE A SITE CONCEPTUAL MODEL, DATA COLLECTION, EVALUATION AND DOCUMENTATION INCLUDING ALL FIGURES AND REPORTS IN THE FORMAT SPECIFIED BY THE ADEQ SCM GUIDANCE. REQUIRED ATTACHMENTS TO THE SCR INCLUDE A SITE LOCATION MAP, SITE PLAN, SOIL AND GROUNDWATER CONTAMINATION MAPS, GEOLOGIC CROSS SECTIONS, SOIL SAMPLING ANALYTICAL RESULTS, LABORATORY REPORTS, CHAIN-OF-CUSTODY AND LABORATORY QA/QC REPORTS. ACTIVITIES INCLUDE THE PERSONNEL TIME FOR PREPARATION OF THE REPORT INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. THE SITE CHARACTERIZATION REPORT SHOULD ONLY BE SUBMITTED IF THE SITE HAS BEEN ADEQUATELY DEFINED IN ACCORDANCE WITH ADEQ GUIDANCE. FIELD TIME OR PILOT AND FEASIBILITY TESTS ARE NOT TO BE INCLUDED IN THE REPORT PREPARATION TASK.

**121. ADEQ-APPROVED STANDARD SITE CHARACTERIZATION REPORT  
INCREMENTAL COST INCREASE PER GROUNDWATER MONITOR WELL**

**PER WELL**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) FOR EACH ADDITIONAL WELL OVER AND ABOVE THE 4 GROUNDWATER MONITOR WELLS COMPRISING A STANDARD GROUNDWATER ONLY OR SOIL AND GROUNDWATER SCR.



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**122. ADEQ-APPROVED STANDARD SITE CHARACTERIZATION REPORT  
UP TO (4) SOIL BORINGS AND (4) GROUNDWATER MONITOR WELLS**

**PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) TO COMPLETE THE SCR. THE SCR SHOULD INCLUDE, A SITE CONCEPTUAL MODEL, DATA COLLECTION, EVALUATION AND DOCUMENTATION INCLUDING ALL FIGURES AND REPORTS IN THE FORMAT SPECIFIED BY THE ADEQ SCM GUIDANCE. REQUIRED ATTACHMENTS TO THE SCR INCLUDE A SITE LOCATION MAP, SITE PLAN, SOIL AND GROUNDWATER CONTAMINATION MAPS, GEOLOGIC CROSS SECTIONS, SOIL SAMPLING ANALYTICAL RESULTS, LABORATORY REPORTS, CHAIN-OF-CUSTODY AND LABORATORY QA/QC REPORTS. ACTIVITIES INCLUDE THE PERSONNEL TIME FOR PREPARATION OF THE REPORT INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. THE SITE CHARACTERIZATION REPORT SHOULD ONLY BE SUBMITTED IF THE SITE HAS BEEN ADEQUATELY DEFINED IN ACCORDANCE WITH ADEQ GUIDANCE. FIELD TIME OR PILOT AND FEASIBILITY TESTS ARE NOT TO BE INCLUDED IN THE REPORT PREPARATION TASK. INCREMENTAL PER BORING AND MONITOR WELL COSTS MAY BE CLAIMED FOR EACH SOIL BORING AND GROUNDWATER MONITOR WELL OVER THE FOUR SET FOURTH IN THIS TASK (SEE ITEM DESCRIPTION NOS. 119 AND 121 , RESPECTIVELY).

**REMEDIAL REPORTS**

**123. INITIAL PERIODIC GROUNDWATER MONITORING REPORT  
UP TO (4) GROUNDWATER MONITOR WELLS**

**PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) NECESSARY TO COMPLETE THE FIRST PERIODIC MONITORING REPORT. THE REPORT CONVEYS RESULTS OF THE FIRST SAMPLING EVENT CONDUCTED AT THE SITE AND MUST INCLUDE THE FOLLOWING: COMPLETE DESCRIPTION OF ALL WORK COMPLETED; PERIODIC WATER-LEVEL-ELEVATION DATA FOR EACH GROUNDWATER MONITOR AND RECOVERY WELL; PERIODIC FREE PRODUCT THICKNESS DATA FOR EACH WELL CONTAINING FREE PRODUCT; ANALYTICAL RESULTS FOR GROUNDWATER SAMPLING SITE DIAGRAMS, A GROUNDWATER CONTAMINANT CONCENTRATION MAP, UP TO (2) HYDROGRAPHS AND ANALYSIS OF DATA. ACTIVITIES FOR THE REPORT INCLUDE THE PERSONNEL TIME FOR PREPARATION, INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE.

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- 124. INITIAL PERIODIC GROUNDWATER MONITORING REPORT INCREMENTAL REPORT PREPARATION COST FOR EACH ADDITIONAL GROUNDWATER MONITOR WELL OVER (4) PER WELL**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) FOR EACH ADDITIONAL WELL OVER AND ABOVE THE (4) GROUNDWATER MONITOR WELLS COMPRISING A STANDARD GROUNDWATER MONITORING REPORT.

- 125. SUBSEQUENT PERIODIC GROUNDWATER MONITORING REPORT UP THROUGH (4) GROUNDWATER MONITOR WELLS PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) NECESSARY TO COMPLETE EACH SUBSEQUENT GROUNDWATER MONITORING REPORT. EACH REPORT MUST INCLUDE THE FOLLOWING: COMPLETE DESCRIPTION OF ALL WORK COMPLETED SUBSEQUENT TO LAST PERIODIC REPORT; PERIODIC WATER-LEVEL ELEVATION DATA FOR EACH GROUNDWATER MONITOR AND RECOVERY WELL; PERIODIC FREE PRODUCT THICKNESS DATA FOR EACH WELL CONTAINING FREE PRODUCT; ANALYTICAL RESULTS FOR GROUNDWATER SAMPLING, SITE DIAGRAMS, A GROUNDWATER CONTAMINATE CONCENTRATION MAP, UP TO (2) HYDROGRAPHS AND ANALYSIS OF DATA. ACTIVITIES FOR THE REPORT INCLUDE THE PERSONNEL TIME FOR PREPARATION, INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING OR BINDING.

- 126. SUBSEQUENT PERIODIC GROUNDWATER MONITORING REPORT INCREMENTAL REPORT PREPARATION COST FOR EACH ADDITIONAL GROUNDWATER MONITOR WELL OVER (4) PER WELL**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/WELL) FOR EACH ADDITIONAL WELL OVER AND ABOVE THE (4) GROUNDWATER MONITOR WELLS COMPRISING A STANDARD GROUNDWATER MONITORING REPORT.

- 127. INITIAL PERIODIC REMEDIAL PROGRESS REPORT (SOIL AND GROUNDWATER) PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) REQUIRED TO PREPARE THE INITIAL PERIODIC REMEDIAL PROGRESS REPORT FOR PASSIVE AND ACTIVE REMEDIATION. THIS REPORT MUST INCLUDE A DESCRIPTION OF ALL WORK PERFORMED, HYDROCARBON RECOVERY, PERIODIC MONITORING RESULTS, INFLUENT AND EFFLUENT SYSTEM SAMPLING RESULTS, AMOUNT OF MEDIA TREATED, SITE DIAGRAMS, AND ANALYSIS OF CURRENT AND HISTORICAL DATA. ACTIVITIES INCLUDE THE PERSONNEL TIME FOR PREPARATION OF THE REPORT INCLUDING TIME FOR

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REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING, AND POSTAGE. NOTE: THIS REPORT IS TYPICALLY NO MORE THAN TWO PAGES OF TEXT WITH ATTACHED DATA.

**128. SUBSEQUENT PERIODIC REMEDIAL PROGRESS REPORT  
(SOIL AND GROUNDWATER)**

**PER REPORT**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) REQUIRED TO PREPARE THE SUBSEQUENT REMEDIAL PROGRESS REPORTS FOR PASSIVE AND ACTIVE REMEDIATION. THIS REPORT MUST INCLUDE DESCRIPTION OF ALL WORK PERFORMED, PERIODIC MONITORING RESULTS, IN FLUENT AND EFFLUENT SYSTEM SAMPLING RESULTS, AMOUNT OF MEDIA TREATED, SITE DIAGRAMS, AND ANALYSIS OF CURRENT AND HISTORICAL DATA. ACTIVITIES INCLUDE THE PERSONNEL TIME FOR PREPARATION OF THE REPORT INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING AND BINDING. NOTE: THIS REPORT IS TYPICALLY NO MORE THAN TWO PAGES OF TEXT WITH ATTACHED DATA.

**129. POST-REMEDATION CLOSURE REPORT**

**PER REPORT**

MATERIAL COSTS (\$/REPORT) REQUIRED TO PREPARE A POST-REMEDATION CLOSURE REPORT. THIS REPORT MUST INCLUDE DESCRIPTION OF ALL WORK PERFORMED IN ASSOCIATION WITH CONFIRMATION BORINGS, ANALYTICAL RESULTS, AMOUNT OF MEDIA TREATED, SITE DIAGRAMS, AND ANALYSIS OF CURRENT DATA. THIS REPORT IS TYPICALLY SUBMITTED WHEN ANALYTICAL RESULTS INDICATE THAT CONTAMINANT CONCENTRATIONS HAVE BEEN REDUCED TO LEVELS BELOW APPLICABLE REGULATORY THRESHOLDS. INFORMATION CONTAINED WITHIN THIS REPORT MUST ULTIMATELY RESULT IN CASE CLOSURE. ACTIVITIES INCLUDE THE PERSONNEL TIME FOR PREPARATION OF THE REPORT INCLUDING TIME FOR REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING AND BINDING. NOTE: THIS REPORT IS TYPICALLY NO MORE THAN TWO PAGES OF TEXT WITH ATTACHED DATA.

**130. SITE DE-COMMISSIONING LETTER REPORT**

**PER REPORT**

SITE DE-COMMISSIONING LETTER REPORT: THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/REPORT) FOR PREPARATION OF A SITE DE-COMMISSIONING LETTER REPORT. THIS LETTER REPORT IS NOT TO EXCEED (2) PAGES IN LENGTH AND IS TO BE LIMITED TO A SUMMARY OF TASKS CONDUCTED TO DE-COMMISSION A CLOSED SITE.

**SAF APPLICATION PREPARATION**

**131. PRE-APPROVAL APPLICATION**

**PER APPLICATION**

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THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/APPLICATION) REQUIRED TO PREPARE AN SAF PRE-APPROVAL APPLICATION. ACTIVITIES INCLUDE PREPARATION OF THE APPLICATION INCLUDING REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. ITEM DOES NOT INCLUDE ANY WORKPLAN PREPARATION; ONLY PREPARATION OF THE APPLICATION.

**132. REIMBURSEMENT/DIRECT PAY APPLICATION**  
**(<= 2 PRIMARY [MAIN PROVIDER] INVOICES)**

**PER APPLICATION**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/APPLICATION) REQUIRED TO PREPARE AN SAF REIMBURSEMENT APPLICATION. ACTIVITIES INCLUDE PREPARATION OF THE APPLICATION INCLUDING REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. ASSUME THAT THE APPLICATION HAS NO MORE THAN 2 PRIMARY (MAIN PROVIDER) INVOICES.

**133. REIMBURSEMENT/DIRECT PAY APPLICATION**  
**(2< PRIMARY [MAIN PROVIDER] INVOICES <=5)**

**PER APPLICATION**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/APPLICATION) REQUIRED TO PREPARE A SAF REIMBURSEMENT APPLICATION. ACTIVITIES INCLUDE PREPARATION OF THE APPLICATION INCLUDING REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. ASSUME 2 TO 5 INVOICES.

**134. REIMBURSEMENT/DIRECT PAY APPLICATION**  
**(5< PRIMARY [MAIN PROVIDER] INVOICES <=10)**

**PER APPLICATION**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT, AND MATERIAL COSTS (\$/APPLICATION) REQUIRED TO PREPARE AN SAF REIMBURSEMENT APPLICATION. ACTIVITIES INCLUDE PREPARATION OF THE APPLICATION INCLUDING REVIEW, CLERICAL SUPPORT, AND ALL OTHER DIRECT COSTS SUCH AS COPYING, BINDING AND POSTAGE. ASSUME 6 TO 10 INVOICES.

**EQUIPMENT RENTAL RATES**

**135. SVE SYSTEM WITH THERMAL OXIDIZER (100 CFM)**

**PER MONTH**

EQUIPMENT RENTAL (\$/MONTH) TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND THERMAL OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO

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MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**136. SVE SYSTEM WITH THERMAL OXIDIZER (250 CFM)**

**PER MONTH**

EQUIPMENT RENTAL (\$/MONTH) TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND THERMAL OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**137. SVE SYSTEM WITH THERMAL OXIDIZER (500 CFM)**

**PER MONTH**

EQUIPMENT RENTAL (\$/MONTH) TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND THERMAL OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**138. SVE SYSTEM WITH THERMAL OXIDIZER (700 CFM)**

**PER MONTH**

EQUIPMENT RENTAL (\$/MONTH) TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND THERMAL OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**139. SVE SYSTEM WITH CATALYTIC OXIDIZER (100 CFM)**

**PER MONTH**

PRICE PER MONTH TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND CATALYTIC OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS AND CATALYST BEDS CAPABLE OF

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ACHIEVING AT LEAST 90% DESTRUCTION EFFICIENCY. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**140. SVE SYSTEM WITH CATALYTIC OXIDIZER (250 CFM) PER MONTH**

PRICE PER MONTH TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND CATALYTIC OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS AND CATALYST BEDS CAPABLE OF ACHIEVING AT LEAST 90% DESTRUCTION EFFICIENCY. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**141. SVE SYSTEM WITH CATALYTIC OXIDIZER (500 CFM) PER MONTH**

PRICE PER MONTH TO INCLUDE SKID OR TRAILER MOUNTED VAPOR EXTRACTION EQUIPMENT INCLUDING VACUUM BLOWER AND WATER KNOCKOUT, AND CATALYTIC OXIDIZER WITH APPROPRIATE GAUGES AND EQUIPMENT NECESSARY TO MONITOR SYSTEM EFFECTIVENESS AND MEET APPROPRIATE PERMITTING (AND OTHER) REGULATORY REQUIREMENTS. COST INCLUDES A CHART RECORDER CAPABLE OF RECORDING ON A WEEKLY OR MONTHLY BASIS AND CATALYST BEDS CAPABLE OF ACHIEVING AT LEAST 90% DESTRUCTION EFFICIENCY. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**142. AIR SPARGE SYSTEM (UP TO 100 CFM AND UP TO 12 PSI) PER MONTH**

PRICE IS PER MONTH TO INCLUDE SKID MOUNTED AIR SPARGE SYSTEM INCLUDING BLOWER OR COMPRESSOR TO GENERATE UP TO 100 CFM FLOW RATE AND UP TO 12 PSI PRESSURE, AND APPROPRIATE GAUGES AND CONTROL PANEL. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**143. AIR SPARGE SYSTEM (UP TO 100 CFM AND 13 TO 100 PSI) PER MONTH**

PRICE IS PER MONTH TO INCLUDE SKID MOUNTED AIR SPARGE SYSTEM INCLUDING BLOWER OR COMPRESSOR TO GENERATE UP TO 100 CFM FLOW RATE AND UP TO 12 PSI PRESSURE, AND APPROPRIATE GAUGES AND CONTROL PANEL. DOES NOT INCLUDE COST OF UTILITIES TO OPERATE THE SYSTEM.

**144. SVE/AIR SPARGE PORTABLE PILOT TEST UNIT PER DAY**

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EQUIPMENT INCLUDES: BLOWER/COMPRESSOR, VACUUM/PRESSURE GAUGES, ANEMOMETER, PITOT TUBES, GENERATOR, MISCELLANEOUS FITTINGS, POWER CORDS AND PLUGS.

**145. BLOWER (160 CFM) PER MONTH**

PRICE IS PER MONTH FOR AN EXPLOSION PROOF, REGENERATIVE BLOWER WITH 160 CFM CAPACITY.

**146. BLOWER (280 CFM) PER MONTH**

PRICE IS PER MONTH FOR AN EXPLOSION PROOF, REGENERATIVE BLOWER WITH 280 CFM CAPACITY.

**147. MANUAL-OPERATED HAND AUGER SAMPLING KIT  
(HAND AUGER/BRASS SLEEVES) PER DAY**

EQUIPMENT RENTAL: DAILY RATE (\$/DAY) FOR MANUAL-OPERATED HAND AUGER AND SAMPLING KIT (HAND AUGER, BRASS SLEEVES, ETC.).

**148. 50-GALLON, DOT-APPROVED DRUM PER DRUM**

EQUIPMENT COST: TOTAL COST PER DRUM (\$/DRUM) FOR A 50-GALLON, DOT-APPROVED, DRUM.

**LABORATORY RATES**

**MOBILE LABORATORY RATES**

**149. MOBILE LAB MOB/DEMOB RATE FOR ONE PERSON CREW PER EVENT**

TOTAL MOBILE LAB MAKE READY - MOB/DEMOB (\$/EVENT) INCLUDES THE FOLLOWING: PREPARATION AND LOADING OF ALL APPROPRIATE EQUIPMENT, MATERIALS, AND SUPPLIES, INCLUDING SUPPORT VEHICLES, ON-SITE EQUIPMENT CALIBRATION, CLEAN-UP, AND EQUIPMENT DECONTAMINATION. THIS TASK ALSO INCLUDES ALL COSTS ASSOCIATED WITH INITIAL VEHICLE TRAVEL TO THE SITE, SITE CLEAN-UP AND RETURN

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TO THE YARD. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE PER MILE TRAVEL RATE SET FORTH IN MOB/DEMOB INCREMENTAL TRAVEL RATE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND INCLUDES PERSONNEL TRAVEL. ASSUME A ONE PERSON CREW.

**150. MOBILE LAB MOB/DEMOB RATE FOR TWO PERSON CREW PER EVENT**

TOTAL MOBILE LAB - MOB/DEMOB (\$/EVENT) INCLUDES THE FOLLOWING: PREPARATION AND LOADING OF ALL APPROPRIATE EQUIPMENT, MATERIALS, AND SUPPLIES, INCLUDING SUPPORT VEHICLES, ON-SITE EQUIPMENT CALIBRATION, CLEAN-UP, AND EQUIPMENT DECONTAMINATION. THIS TASK ALSO INCLUDES ALL COSTS ASSOCIATED WITH INITIAL VEHICLE TRAVEL TO THE SITE, SITE CLEAN-UP AND RETURN TO THE YARD. THIS TASK ASSUMES A ROUND TRIP TRAVEL DISTANCE OF 60 MILES. INCREMENTAL MILEAGE OVER 60 MILES WILL BE EVALUATED ON A PER MILE BASIS UTILIZING THE PER MILE TRAVEL RATE SET FORTH IN MOB/DEMOB INCREMENTAL TRAVEL RATE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND INCLUDES PERSONNEL TRAVEL. ASSUME A TWO-PERSON CREW.

**151. MOBILE LAB - MOB/DEMOB INCREMENTAL TRAVEL  
RATE FOR A ONE PERSON CREW PER MILE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR INCREMENTAL MILEAGE ABOVE THE 60 MILES INCLUDED IN MOBILE LAB MOB/DEMOB (ITEM DESCRIPTION NO. 149). THIS TASK INCLUDES ALL COSTS ASSOCIATED WITH VEHICLE AND LABOR TRAVEL TO AND FROM THE SITE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND DOES NOT PERTAIN TO WORK CREW TRAVEL ON A DAILY BASIS. ASSUME A ONE PERSON CREW.

**152. MOBILE LAB - MOB/DEMOB INCREMENTAL TRAVEL  
RATE FOR A TWO PERSON CREW PER MILE**

THIS TASK CONSISTS OF THE TOTAL PERSONNEL, EQUIPMENT AND MATERIAL COSTS (\$/MILE) FOR INCREMENTAL MILEAGE ABOVE THE 60 MILES INCLUDED IN MOBILE LAB MOB/DEMOB (COST CEILING LINE ITEM NO. 150). THIS TASK INCLUDES ALL COSTS ASSOCIATED WITH VEHICLE AND LABOR TRAVEL TO AND FROM THE SITE. NOTE: THIS IS A ONE-TIME CHARGE PER EVENT AND DOES NOT PERTAIN TO WORK CREW TRAVEL ON A DAILY BASIS. ASSUME A TWO PERSON CREW.

**153. ON-SITE MOBILE LAB RATE FOR ONE PERSON CREW  
SOIL AND GROUNDWATER ANALYSIS PER HOUR**



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**2000 Cost Ceiling Item Descriptions**

TOTAL ON-SITE MOBILE LAB RATE (\$/HOUR; 6-HOUR MINIMUM ) FOR SOIL AND GROUNDWATER ANALYSIS. MOBILE LAB MUST BE ADHS-CERTIFIED. ASSUME ONE PERSON CREW.

**154. ON-SITE MOBILE LAB RATE FOR TWO PERSON CREW  
SOIL AND GROUNDWATER ANALYSIS**

**PER HOUR**

TOTAL ON-SITE MOBILE LAB RATE (\$/HOUR; 6-HOUR MINIMUM ) FOR SOIL AND GROUNDWATER ANALYSIS. MOBILE LAB MUST BE ADHS-CERTIFIED. ASSUME TWO PERSON CREW.

**ORGANIC ANALYSIS**

**PER SAMPLE**

**155. LAB ANALYSIS (\$/TEST): TOTAL PETROLEUM HYDROCARBONS (TPH) BY ADHS METHOD 418.1 AZ USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**156. LAB ANALYSIS (\$/TEST): TPH BY ADHS METHOD 8015 AZR1 (C1-C32 DRO-ORO) USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**157. LAB ANALYSIS (\$/TEST): TPH BY EPA METHOD 8015 AZR1 (MODIFIED)/ (C6-C10) (AIR ONLY)**

**158. LAB ANALYSIS (\$/TEST): TPH (C6-C10)/BTEX BY EPA METHOD 8015 AZR1 (MODIFIED) /8021B (AIR ONLY)**

**8021B SOIL**

**159. LAB ANALYSIS (\$/TEST): AROMATIC VOCS (BTEX) BY EPA METHOD 8021B USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**160. LAB ANALYSIS (\$/TEST): HALOGENATED VOCS BY EPA METHOD 8021B; ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**161. LAB ANALYSIS (\$/TEST): EPA METHOD 8021B; ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**162. LAB ANALYSIS (\$/TEST): FULL LIST VOLATILE ORGANICS BY EPA METHOD**

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**8021B USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**8021B GROUNDWATER**

- 163. LAB ANALYSIS (\$/TEST): AROMATIC VOCS (BTEX) BY EPA 8021B USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)**
- 164. LAB ANALYSIS (\$/TEST): HALOGENATED VOCS BY EPA METHOD 8021B FOR ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)**
- 165. LAB ANALYSIS (\$/TEST): EPA METHOD 8021B; ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)**
- 166. LAB ANALYSIS (\$/TEST): FULL LIST VOLATILE ORGANICS BY EPA METHOD 8021B USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)**

**8021B AIR**

- 167. LAB ANALYSIS (\$/TEST): AROMATIC VOCS (BTEX) BY EPA METHOD 8021B (AIR ONLY)**
- 168. LAB ANALYSIS (\$/TEST): HALOGENATED VOCS BY EPA METHOD 8021B; ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (AIR ONLY)**

**8260B SOIL**

- 169. LAB ANALYSIS (\$/TEST): EPA METHOD 8260B; ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**
- 170. LAB ANALYSIS (\$/TEST): FULL LIST VOLATILE ORGANICS BY EPA METHOD 8260B USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**

**8260B GROUNDWATER**

- 171. LAB ANALYSIS (\$/TEST): EPA METHOD 8260B; ARIZONA TARGET COMPOUNDS (AZ LIST) USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)**

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**2000 Cost Ceiling Item Descriptions**

172. LAB ANALYSIS (\$/TEST): FULL LIST VOLATILE ORGANICS BY EPA METHOD 8260B USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)

**POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS)**

175. LAB ANALYSIS (\$/TEST): SEMI-VOLATILE ORGANICS (PAHS) BY EPA METHOD 8270C USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)
174. LAB ANALYSIS (\$/TEST): SEMI-VOLATILE ORGANICS (PAHS) BY EPA METHOD 8270C USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)
175. LAB ANALYSIS (\$/TEST): POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) BY EPA METHOD 8310 USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)
176. LAB ANALYSIS (\$/TEST): POLYNUCLEAR AROMATIC HYDROCARBONS (PAHS) BY EPA METHOD 8310 USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)

**WASTE CHARACTERIZATION ANALYSIS**

**PER SAMPLE**

177. LAB ANALYSIS (\$/TEST): TOTAL PETROLEUM HYDROCARBONS (TPH) BY EPA METHOD 418.1 USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY) FOR WASTE CHARACTERIZATION AND PERMIT REQUIREMENT PURPOSES ONLY. NOTE: THIS TEST IS NOT TO BE USED FOR U.S. REGULATORY PURPOSES SUCH AS GROUNDWATER MONITORING.
178. LAB ANALYSIS (\$/TEST): TCLP EXTRACTION LEAD (Pb) ANALYSIS BY EPA METHOD 1311 AND THE APPROPRIATE SW846 EPA METHOD USING AN ADHS-CERTIFIED LABORATORY
179. LAB ANALYSIS (\$/TEST): TCLP EXTRACTION BY EPA METHOD 1311 - ANALYSIS OF 8 RCRA METALS BY APPROPRIATE SW846 EPA METHOD, USING AN ADHS-CERTIFIED LABORATORY
180. LAB ANALYSIS (\$/TEST): IGNITABILITY TEST BY EPA METHOD 1010 (LIQUID ONLY)
181. LAB ANALYSIS (\$/TEST): IGNITABILITY TEST BY EPA METHOD 1010 MODIFIED (SOIL ONLY)

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- 182. LAB ANALYSIS (\$/TEST): CORROSITIVITY PH BY EPA METHOD 9045 (SOIL ONLY)**
- 183. LAB ANALYSIS (\$/TEST): CORROSITIVITY PH BY EPA METHOD 9040 (GROUNDWATER ONLY)**
- 184. LAB ANALYSIS (\$/TEST): PAINT FILTER FREE LIQUIDS BY EPA METHOD 9095**
- 185. LAB ANALYSIS (\$/TEST): POLYCHLORINATED BIPHENYLS (SOIL) BY EPA METHOD 8082**
- 186. LAB ANALYSIS (\$/TEST): LEAD BY AN APPROVED SW846 EPA METHOD USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY).**

**BIOFEASIBILITY / BIOTREATABILITY ANALYSIS**

- 187. LAB ANALYSIS (\$/TEST): PHOSPHATE-P BY AN APPROVED EPA/ASTM METHOD (SOIL ONLY)**
- 188. LAB ANALYSIS (\$/TEST): NITRATE + NITRITE-N BY AN APPROVED EPA/ASTM METHOD (SOIL ONLY).**
- 189. LAB ANALYSIS (\$/TEST): NITROGEN USING AN ADHS-CERTIFIED LABORATORY (SOIL ONLY)**
- 190. LAB ANALYSIS (\$/TEST): ALKALINITY BY EPA METHOD 310.1 USING AN ADHS-CERTIFIED LABORATORY (GROUNDWATER ONLY)**
- 191. LAB ANALYSIS (\$/TEST): TOTAL ORGANIC CARBON-- BY EPA METHOD 415.1**
- 192. LAB ANALYSIS (\$/TEST): TOTAL ORGANIC CARBONCEPA METHOD 9060**
- 193. LAB ANALYSIS (\$/TEST): AMMONIA BY EPA METHOD 350.3 OR OTHER ASTM METHOD (GROUNDWATER)**
- 194. LAB ANALYSIS (\$/TEST): SULFATE BY EPA METHOD 375.2 (GROUNDWATER ONLY) OR OTHER ASTM METHOD**

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- 195. LAB ANALYSIS (\$/TEST): NITRATE BY EPA METHOD 353.2 (GROUNDWATER ONLY)**
- 196. LAB ANALYSIS (\$/TEST): ALKALINITY BY EPA METHOD 310.1 MODIFIED**
- 197. LAB ANALYSIS (\$/TEST): TOTAL DISSOLVED SOLIDS BY EPA METHOD 160.1**
- 198. LAB ANALYSIS (\$/TEST): TOTAL SOLIDS BY EPA METHOD 160.3**
- 199. LAB ANALYSIS (\$/TEST): BIOCHEMICAL OXYGEN DEMAND (BOD) BY EPA METHOD 405.1[NOTE: AQUEOUS MATRICES ONLY]**